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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/674,316	09/29/2003	Zohar Bogin	42P9348D2	4663

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EXAMINER

VO, TIM T

ART UNIT	PAPER NUMBER
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2112

DATE MAILED: 08/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/674,316

Applicant(s)

BOGIN ET AL.

Examiner

Tim T. Vo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 10-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 10-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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Part III DETAILED ACTION

Notice to Applicant(s)

This application has been examined. Claims 10-18 are pending.

Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 10, 12-13, 15-16 and 18 are rejected under 35 U.S.C. § 102(b) as being anticipated by Ajanovic et al. patent number 6,021,483.

As for claim 10, Ajanovic teaches a method, comprising: dispatching a bus transaction from a requestor to a device (see figure 1, processor 101, bus 120, device 122 connecting to the bus 120 wherein the processor 101 is a requestor and requesting to communicate with the display device or devices connecting to the bus 120 via the bridge memory controller (see column 3 lines 1-14); starting a timer (see figure 2, CLT timer 234 and column 5 lines 45-46); determining if the timer expires before the device responds to the dispatched bus transaction (see column 5 lines 45-46, wherein the timer 223 determines whether the transaction from the processor 101 exceeded a

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predetermined set time); and issuing a deferred transaction response to the requestor if the timer expires (see column 5 lines 42-55).

As for claim 12, Ajanovic teaches the method of claim 10, wherein issuing includes issuing an unconditionally deferred transaction (see column 5 lines 18-20).

As for claim 13 Ajanovic teaches an apparatus, comprising: a command dispatcher coupled to a command queue (see figure 1-2, CPU 101, 111); a detector coupled to the command dispatcher to detect if a command dispatched to the command queue by the command dispatcher has been responded to (see figure 2, timer 223, transaction 222 and column 5 lines 41-55); a timer coupled to the detector (see figure 2, timer 223); and logic coupled to the timer to issue a deferred response to the requestor if the timer expires before the command has been responded to (see figure 2 and column 5 lines 41-55).

As for claim 15, Ajanovic teaches the apparatus of claim 13, wherein the timer is a programmable timer (see figure 2, timer 223).

As for claim 16, Ajanovic teaches a machine-readable medium having stored thereon instructions (see column 3 lines 1-14), which when executed by at least one machine cause said at least one machine to perform: receiving a bus transaction from a requestor to a device (see figure 7); starting a timer (see figure 7); determining if the timer expires before the device responds to the dispatched bus transaction (see figure 7); and issuing a deferred transaction response to the requestor if the timer expires (see figure 7).

As for claim 18, Ajanovic teaches the medium of claim 16, wherein issuing includes issuing an unconditionally deferred transaction (see column 5 lines 18-20).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 11, 14 and 17 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Ajanovic et al. patent number 6,021,483 in view of Ljungberg et al. 5,493,566.

As for claims 11, 14 and 17, Ajanovic does not expressly teach starting occurs only if an in-order queue has a depth of 1. However, Ljungberg teaches buffer detection by constantly monitored the buffer is being full (see column 6 lines 31-48). Therefore, it would have been obvious to a person of an ordinary skill in the art at the time the invention was made to have combined the teachings of Ljungberg into the teachings of Ajanovic because Ljungberg providing Ajanovic's buffer data availability detection to preventing the buffer is overfull and the consequence would loose of data in transmission.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tim T. Vo whose telephone number is 571-272-3642. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rehana Perveen can be reached on 571-272-3676. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

8/21/05



Tim T. Vo
Primary Examiner
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